

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of tracking activity of a plurality of market makers relating to securities traded on at least one common exchange where the market makers place bids and asks, comprising:

receiving with an electronic data receiver a dynamically updated data stream containing level 1 and level 2 data relating to a plurality of securities traded over the at least one exchange, the level 1 data including at least the last trade price, inside bid and inside ask of each security and the level 2 data containing a bid price, a bid time, a bid volume an exchange identifier, a security identifier, and a market maker identifier for each bid, and an ask price, an ask volume, an ask time, an exchange identifier, a security identifier and a market maker identifier for each ask; and

~~calculating analyzing each data item within the data stream for each security in a set of symbols securities with an automated computer electronic processor configured to execute logic to transform the data to derive a statistic indicative of activity of an inside market for each of the symbols, the statistic updated to correspond to content of the updated data stream and the statistic comprising a total number of market makers at the inside market, and a difference between a number of market makers at an inside bid price and a number of market makers at an inside ask price,~~

~~wherein the calculated difference functions as an indicator derived statistic is indicative of a temporary imbalance in market maker activity for at least one of the symbols securities.~~

2. (Currently Amended) The method according to claim 1, further comprising displaying ~~with a on a computer system~~ display the ~~statistic indicative indicator of a temporary imbalance in market maker activity of activity of the inside market in at least one of a table, or a chart, or a graphic~~ for each corresponding ~~symbol security~~.

3. (Currently Amended) The method according to claim 2, further comprising dynamically sorting with the ~~configured processor~~ the at least one of the

table, or the chart, or the graphic based on a parameter selected by the user to reflect current market activity.

4. (Currently Amended) The method according to claim 1, further comprising for each security filtering the data stream with the ~~configured~~ processor, the filtering including discarding bids having a price lower than the last trade value minus one of a selected threshold percentage of the last trade value or a fixed price away, and discarding asks having a price higher than the last trade value plus one of a selected threshold percentage of the last trade value or a fixed price away.

5. (Currently Amended) The method according to claim 4, wherein filtering is for each security conducted for a plurality of selected threshold percentages or fixed prices away, and for each selected threshold percentage or fixed price away a corresponding data set is derived, the ~~statistic indicator~~ being calculated and updated for each ~~symbol~~ security for each data set.

6. (Currently Amended) The method according to claim 1, further comprising filtering the data stream with the ~~configured~~ processor for each ~~symbol-security~~ based on traded volume.

7. (Currently Amended) The method according to claim 1, further comprising filtering the data stream with the ~~configured~~ processor for each ~~symbol-security~~ based on traded price.

8. (Currently Amended) A method of tracking activity of a plurality of market makers relating to securities traded on at least one common exchange where the market makers place bids and asks, comprising:

receiving with an electronic data receiver a dynamically updated data stream containing level 1 and level 2 data relating to a plurality of securities traded over the at least one exchange, the level 1 data including at least the last trade price, inside bid and inside ask of each security and the level 2 data containing a bid price, a bid time, a

bid volume, an exchange identifier, a security identifier, and a market maker identifier for each bid, and an ask price, an ask volume, an exchange identifier, an ask time, a security identifier and a market maker identifier for each ask; and

~~calculating analyzing each data item within the data stream for each security in a set of symbols securities with an automated computer electronic processor configured to execute logic to transform the data to derive a statistic indicative of volume activity of an inside market for each of the symbols, the statistic updated to correspond to content of the updated data stream and the statistic comprising a total volume of shares at the inside market, and at least one of a difference between a number of shares at an inside bid price and a number of shares at an inside ask price, or a percent of inside market shares at the inside bid price as compared to a percent of inside market shares at the inside ask price,~~

~~wherein the at least one calculated difference or calculated percent functions as an indicator derived statistic is indicative of a temporary imbalance in market maker activity for at least one of the symbols securities.~~

9. (Currently Amended) The method according to claim 8, further comprising displaying with a on a computer system display the indicator at least one of the statistics ~~indicative of volume activity of the inside market in at least one of a table, or a chart, or a graphic~~ for each corresponding symbol security.

10. (Currently Amended) The method according to claim 9, further comprising dynamically sorting with the ~~configured~~ processor the at least one of the table, or the chart, or the graphic based on a parameter selected by the user ~~to reflect current market activity~~.

11. (Currently Amended) The method according to claim 8, further comprising for each security filtering the data stream with the ~~configured~~ processor, the filtering including discarding bids having a price lower than the last trade value minus one of a selected threshold percentage of the last trade value or a fixed price away, and

discarding asks having a price higher than the last trade value plus one of a selected threshold percentage of the last trade value or a fixed price away.

12. (Currently Amended) The method according to claim 11, wherein filtering for each security is conducted for a plurality of selected threshold percentages or fixed prices away, and for each selected threshold percentage or fixed price away a corresponding data set is derived, the ~~statistic indicator~~ being calculated and updated for each symbol security for each data set.

13. (Currently Amended) The method according to claim 8, further comprising filtering the data stream with the ~~configured~~ processor for each symbol security based on traded volume.

14. (Currently Amended) The method according to claim 8, further comprising filtering the data stream with the ~~configured~~ processor for each symbol security based on traded price.

15. (Withdrawn) A method of tracking a plurality of symbols relating to securities traded on at least one common exchange, comprising:

receiving a dynamically updated data stream containing level 1 data relating to the plurality of symbols traded over the at least one exchange, the level 1 data including at least the last trade price of each symbol; and

analyzing the data stream for a set of symbols to derive for each symbol at least one of:

an upward price movement indicator by dividing a count of the number of times the symbol achieves a new intra-session high by an intra-session trading price range, and

a downward price movement indicator by dividing a count of the number of times the symbol achieves a new intra-session low by the intra-session price range.

16. (Withdrawn) The method according to claim 15, wherein at least one of the upward price movement indicator and the downward price movement indicator is updated to correspond to content of the updated data stream.

17. (Withdrawn) The method according to claim 15, further comprising displaying at least one of the upward price movement indicator and the downward price movement indicator in at least one of a table or a chart for each corresponding symbol.

18. (Withdrawn) The method according to claim 17, further comprising dynamically sorting the at least one of the table or the chart based on a parameter selected by the user to reflect current market activity.

19. (Withdrawn) The method according to claim 15, further comprising filtering the data stream for each symbol based on traded volume.

20. (Withdrawn) The method according to claim 15, further comprising filtering the data stream for each symbol based on traded price.

21. (Withdrawn) The method according to claim 15, further comprising waiting a specified period of time after the beginning of the session to commence the analyzing.

22. (Withdrawn) A method of tracking a plurality of symbols relating to securities traded on at least one common exchange, comprising:

receiving a dynamically updated data stream containing level 1 data relating to the plurality of symbols traded over the at least one exchange, the level 1 data including at least the last trade price of each symbol; and

analyzing the data stream for a set of symbols to derive for each symbol at least one of:

a high opening balance range extension by subtracting a high trade price established during an opening balance delay interval from a current high trade price, and

a low opening balance range extension by subtracting a current low trade price from a low trade price established during the opening balance delay interval.

23. (Withdrawn) The method according to claim 22, wherein at least one of the high opening balance range extension and the low opening balance range extension is updated to correspond to content of the updated data stream.

24. (Withdrawn) The method according to claim 22, further comprising displaying at least one of the high opening balance range extension and the low opening balance range extension in at least one of a table or a chart for each corresponding symbol.

25. (Withdrawn) The method according to claim 24, further comprising dynamically sorting the at least one of the table or the chart based on a parameter selected by the user to reflect current market activity.

26. (Withdrawn) The method according to claim 22, further comprising filtering the data stream for each symbol based on traded volume.

27. (Withdrawn) The method according to claim 22, further comprising filtering the data stream for each symbol based on traded price.

28. (Withdrawn) The method according to claim 22, further comprising waiting a specified period of time after the beginning of the session to commence the analyzing.

29. (Withdrawn) The method according to claim 22, further comprising deriving for each symbol at least one of:

a high opening balance range extension percentage by dividing the corresponding high opening balance range extension value by a current trading session price range, and

a low opening balance range extension percentage by dividing the corresponding low opening balance range extension value by the current trading session price range.

30. (Withdrawn) The method according to claim 29, wherein at least one of the high opening balance range extension percentage and the low opening balance range extension percentage is updated to correspond to content of the updated data stream.

31. (Withdrawn) The method according to claim 29, further comprising displaying at least one of the high opening balance range extension percentage and the low opening balance range extension percentage in at least one of a table or a chart for each corresponding symbol.

32. (Withdrawn) The method according to claim 31, further comprising dynamically sorting the at least one of the table or the chart based on a parameter selected by the user to reflect current market activity.

33. (Withdrawn) The method according to claim 29, further comprising filtering the data stream for each symbol based on traded volume.

34. (Withdrawn) The method according to claim 29, further comprising filtering the data stream for each symbol based on traded price.

35. (Withdrawn) The method according to claim 29, further comprising waiting a specified period of time after the beginning of the session to commence the analyzing.

36. (Withdrawn) A method of tracking a plurality of symbols relating to securities traded on at least one common exchange, comprising:

receiving a dynamically updated data stream containing level 1 data relating to the plurality of symbols traded over the at least one exchange, the level 1 data including at least the last trade price of each symbol; and

tracking on a symbol by symbol basis for a set of symbols a statistic selected from at least one of:

a difference between a number of trades for a first time period and a number of trades for a second time period,

a difference between a total volume of shares traded for the first time period and a total volume of shares traded for the second time period,

an average volume of shares per trade for the first time period;

an average volume of shares per trade for the second time period;

and

a difference between the average volume of shares per trade for the first time period and the average volume of shares per trade for the second time period.

37. (Withdrawn) The method according to claim 36, further comprising displaying at least one of the tracked statistics in at least one of a table or a chart for each corresponding symbol.

38. (Withdrawn) The method according to claim 36, further comprising for at least one of the tracked statistics calculating an average of the tracked statistic per unit of time over the respective time periods.

39. (Withdrawn) The method according to claim 36, wherein the first and the second time periods are from the current trading session.

40. (Withdrawn) The method according to claim 36, wherein the first time period is from the current trading session and the second time period is selected from one of a previous trading session and an average of multiple trading sessions.

41. (Withdrawn) The method according to claim 36, wherein the tracked statistics are updated based on contents of the data stream at regular intervals.

42. (Withdrawn) The method according to claim 41, wherein each interval corresponds to a unit of time and, after each interval elapses, the tracked statistics are updated based on data from the most recent intervals that in total corresponds respectively to a length of the first time period and a length of the second time period.

43. (Withdrawn) The method according to claim 36, wherein the tracked statistics are updated as a moving average.

44. (Withdrawn) The method according to claim 36, further comprising displaying for each corresponding symbol in at least one of a table or a chart at least one of:

a difference between an average of the number of trades per unit time for the first time period and an average of the number of trades per unit time for the second time period, and

a difference between an average of the volume of shares traded per unit time for the first time period and an average of the volume of shares traded per unit time for the second time period.

45. (Currently Amended) A method of tracking a plurality of ~~symbols~~ securities and activity of a plurality of market makers relating to securities traded on at

least one common exchange where the market makers place bids and asks, comprising:

receiving with an electronic data receiver a dynamically updated data stream containing level 2 data relating to a plurality of securities traded over at least one exchange, the level 2 data containing a bid price, a bid time, a bid volume, an exchange identifier, a security identifier, and a market maker identifier for each bid, and an ask price, an ask volume, an exchange identifier, an ask time, a security identifier and a market maker identifier for each ask; and

tracking each data item within the data stream on a ~~symbol by symbol security by security~~ basis for a set of ~~symbols securities~~ with an ~~automated computer electronic~~ processor configured to execute logic ~~and transform the data to derive at least one statistic selected from~~; and

calculating with the processor for each security at least one of a number of bids at a first time period as compared to a number of bids at a second time period, a number of asks at the first time period as compared to the number of asks at the second time period, a bid volume of shares at the first time period as compared to a bid volume of shares at the second time period, an ask volume of shares at the first time period as compared to an ask volume of shares at the second time period, a volume of shares per bid at the first time period as compared to a volume of shares per bid at the second time period, or a volume of shares per ask at the first time period as compared to a volume of shares per ask at the second time period,

wherein a relationship of the ~~tracked statistic at least one calculation~~ for the first and second time periods functions as an indicator is indicative of a temporary imbalance in market maker activity for at least one of the ~~symbols securities~~.

46. (Currently Amended) The method according to claim 45, further comprising displaying ~~with a~~ on a computer system display ~~at least one of the tracked statistics the indicator of a temporary imbalance in market maker activity~~ in at least one of a table, ~~or~~ a chart, or a graphic for each corresponding ~~symbol security~~.

47. (Currently Amended) The method according to claim 45, further comprising for at least one of the ~~tracked statistics calculations, further calculating with the configured processor an average of the tracked statistic calculation per unit of time over the respective time periods.~~

48. (Original) The method according to claim 45, wherein the first and the second time periods are from the current trading session.

49. (Previously Presented) The method according to claim 45, wherein the first time period is from the current trading session and the second time period is selected from one of a previous trading session or an average of multiple trading sessions.

50. (Currently Amended) The method according to claim 45, ~~wherein the tracked statistics are updated further comprising updating the at least one calculation based on contents of the data stream at regular intervals.~~

51. (Currently Amended) The method according to claim 50, wherein each interval corresponds to a unit of time and, after each interval elapses, ~~the tracked statistics are updated further comprising updating the at least one calculation based on data from the most recent intervals that in total corresponds respectively to a length of the first time period and a length of the second time period.~~

52. (Currently Amended) The method according to claim 45, ~~wherein the tracked statistics are updated further comprising updating the at least one calculation as a moving average.~~

53. (Currently Amended) The method according to claim 45, further comprising displaying ~~with a~~ on a computer system display for each corresponding ~~symbol security~~ in at least one of a table, or a chart, or a graphic at least one of a difference between the number of bids for the first time period and the number of bids

for the second time period, or a difference between the number of asks for the first time period and the number of asks for the second time period.

54. (Currently Amended) The method according to claim 45, further comprising displaying ~~with-a~~ on a computer system display for each corresponding symbol security in at least one of a table, ~~or~~ a chart, or a graphic at least one of a difference between the bid volume for the first time period and the bid volume for the second period, or a difference between the ask volume for the first time period and the ask volume for the second time period.

55. (Currently Amended) The method according to claim 45, further comprising displaying ~~with-a~~ on a computer system display for each corresponding symbol security in at least one of a table, ~~or~~ a chart, or a graphic at least one of a difference between the volume per bid for the first time period and the volume per bid for the second time period, or a difference between the volume per ask for the first time period and the volume per ask for the second time period.

56. (Currently Amended) The method according to claim 45, further comprising displaying ~~with-a~~ on a computer system display for each corresponding symbol security in at least one of a table, ~~or~~ a chart, or a graphic at least one of a difference between an average number of bids per unit of time for the first time period and an average number of bids per unit of time for the second time period, or a difference between an average number of asks per unit time for the first time period and an average number of asks per unit of time for the second time period.

57. (Currently Amended) The method according to claim 45, further comprising displaying ~~with-a~~ on a computer system display for each corresponding symbol security in at least one of a table, ~~or~~ a chart, or a graphic at least one of a difference between an average of the bid volume per unit of time for the first time period and an average of the bid volume per unit of time for the second time period, or a

difference between an average of the ask volume per unit of time for the first time period and an average of the ask volume per unit of time for the second time period.

58. (Currently Amended) A method of tracking a plurality of symbols securities and activity of a plurality of market makers relating to securities traded on at least one common exchange where the market makers place bids and asks, comprising:

receiving with an electronic data receiver a dynamically updated data stream containing level 2 data relating to a plurality of securities traded over the at least one exchange, the level 2 data containing a bid price, a bid time, a bid volume, an exchange identifier, a security identifier, and a market maker identifier for each bid, and an ask price, an ask volume, an exchange identifier, an ask time, a security identifier and a market maker identifier for each ask; and

for a selected market maker, tracking each data item within the data stream on a symbol-by-symbol security by security basis for a set of symbols securities with an ~~automated computer electronic~~ processor configured to execute logic ~~and transform the data to derive at least one statistic selected from~~ ; and

calculating with the processor for each security at least one of a number of bids at a first time period as compared to a number of bids at a second time period, a number of asks at the first time period as compared to the number of asks at the second time period, a bid volume of shares at the first time period as compared to a bid volume of shares at the second time period, an ask volume of shares at the first time period as compared to an ask volume of shares at the second time period, a volume of shares per bid at the first time period as compared to a volume of shares per bid at the second time period, or a volume of shares per ask at the first time period as compared to a volume of shares per ask at the second time period,

wherein a relationship of the ~~tracked statistic at least one calculation~~ for the first and second time periods functions as an indicator ~~is indicative~~ of a temporary imbalance in market maker activity for at least one of the symbols securities.

59. (Currently Amended) The method according to claim 58, further comprising displaying with a on a computer system display at least one of the tracked statistics the indicator of a temporary imbalance in market maker activity in at least one of a table, or a chart, or a graphic for each corresponding symbol security.

60. (Currently Amended) The method according to claim 58, further comprising for at least one of the tracked statistics calculations, further calculating with the configured processor an average of the tracked statistic calculation per unit of time over the respective time periods.

61. (Original) The method according to claim 58, wherein the first and the second time periods are from the current trading session.

62. (Previously Presented) The method according to claim 58, wherein the first time period is from the current trading session and the second time period is selected from one of a previous trading session or an average of multiple trading sessions.

63. (Currently Amended) The method according to claim 58, wherein the tracked statistics are updated further comprising updating the at least one calculation based on contents of the data stream at regular intervals.

64. (Currently Amended) The method according to claim 63, wherein each interval corresponds to a unit of time and, after each interval elapses, the tracked statistics are updated further comprising updating the at least one calculation based on data from the most recent intervals that in total corresponds respectively to a length of the first time period and a length of the second time period.

65. (Currently Amended) The method according to claim 58, wherein the tracked statistics are updated further comprising updating the at least one calculation as a moving average.

66. (Currently Amended) The method according to claim 58, further comprising displaying ~~with-a~~ on a computer system display for each corresponding symbol security in at least one of a table, ~~or~~ a chart, or a graphic at least one of a difference between the number of bids for the first time period and the number of bids for the second time period, or a difference between the number of asks for the first time period and the number of asks for the second time period.

67. (Currently Amended) The method according to claim 58, further comprising displaying ~~with-a~~ on a computer system display for each corresponding symbol security in at least one of a table, ~~or~~ a chart, or a graphic at least one of a difference between the bid volume for the first time period and the bid volume for the second period, or a difference between the ask volume for the first time period and the ask volume for the second time period.

68. (Currently Amended) The method according to claim 58, further comprising displaying ~~with-a~~ on a computer system display for each corresponding symbol security in at least one of a table, ~~or~~ a chart, or a graphic at least one of a difference between the volume per bid for the first time period and the volume per bid for the second time period, or a difference between the volume per ask for the first time period and the volume per ask for the second time period.

69. (Currently Amended) The method according to claim 58, further comprising displaying ~~with-a~~ on a computer system display for each corresponding symbol security in at least one of a table, ~~or~~ a chart, or a graphic at least one of a difference between an average number of bids per unit of time for the first time period and an average number of bids per unit of time for the second time period, and a difference between an average number of asks per unit time for the first time period and an average number of asks per unit of time for the second time period.

70. (Currently Amended) The method according to claim 58, further comprising displaying with a on a computer system display for each corresponding symbol security in at least one of a table, or a chart, or a graphic at least one of a difference between an average of the bid volume per unit of time for the first time period and an average of the bid volume per unit of time for the second time period, or a difference between an average of the ask volume per unit of time for the first time period and an average of the ask volume per unit of time for the second time period.

71. (Currently Amended) The method according to claim 58, further comprising:

for a second market maker and on a symbol by symbol security by security basis, ~~tracking calculating with the configured processor the at least one of statistic selected from~~ a number of bids at a first time period as compared to a number of bids at a second time period, a number of asks at the first time period as compared to the number of asks at the second time period, a bid volume of shares at the first time period as compared to a bid volume of shares at the second time period, an ask volume of shares at the first time period as compared to an ask volume of shares at the second time period, a volume of shares per bid at the first time period as compared to a volume of shares per bid at the second time period, or a volume of shares per ask at the first time period as compared to a volume of shares per ask at the second time period; and

comparing the at least one statistic calculation for the selected market maker and the at least one statistic calculation for the second market maker.

72. (Currently Amended) A method of tracking activity of a plurality of market makers relating to securities traded on at least one common exchange where the market makers place bids and asks, comprising:

receiving with an electronic data receiver a dynamically updated data stream containing level 1 and level 2 data relating to a plurality of securities traded over the at least one exchange, the level 1 data including at least the last trade price, inside bid and inside ask of each security and the level 2 data containing a bid price, a bid time, a

bid volume, an exchange identifier, a security identifier, and a market maker identifier for each bid, and an ask price, an ask volume, an exchange identifier, an ask time, a security identifier and a market maker identifier for each ask; and

for each symbol security and market maker pair from a set of symbols securities and a set of market makers, ~~analyzing each data item within the data stream and transform the data to derive a statistic comprising counting with an automated computer electronic processor configured to execute logic at least one of a number of times that a bid having an inside bid price is placed, or a number of times that an ask having an inside ask price is placed,~~

wherein the results of the counting function as an indicator derived statistic is indicative of a temporary imbalance in market maker activity for at least one of the symbols securities.

73. (Currently Amended) The method according to claim 72, further comprising displaying ~~with a~~ on a computer system display at least one of the count of bids having the inside bid price or the count of the asks having the inside ask price in at least one of a table, ~~or~~ a chart, or a graphic for each corresponding symbol security.

74. (Currently Amended) The method according to claim 73, further comprising dynamically sorting with the ~~configured~~ processor the at least one of the table, ~~or the chart, or the graphic~~ based on a parameter selected by the user ~~to reflect current market activity~~.

75. (Currently Amended) The method according to claim 72, further comprising filtering the data stream with the ~~configured~~ processor for each symbol security based on traded volume.

76. (Currently Amended) The method according to claim 72, further comprising filtering the data stream with the ~~configured~~ processor for each symbol security based on traded price.

77. (Currently Amended) A method of tracking activity of a plurality of market makers relating to securities traded on at least one common exchange where the market makers place bids and asks, comprising:

receiving with an electronic data receiver a dynamically updated data stream containing level 1 and level 2 data relating to a plurality of securities traded over the at least one exchange, the level 1 data including at least the last trade price, inside bid and inside ask of each security and the level 2 data containing a bid price, a bid time, a bid volume, an exchange identifier, a security identifier, and a market maker identifier for each bid, and an ask price, an ask volume, an exchange identifier, an ask time, a security identifier and a market maker identifier for each ask; and

for each symbol security and market maker pair from a set of symbols securities and a set of market makers, ~~analyzing each data item within the data stream and transform the data to derive a statistic comprising counting with an automated computer electronic processor configured to execute logic at least one of:~~

a number of times the market maker is a first market maker to post an inside bid that is higher than an immediately preceding inside bid for the symbol security, or

a number of times the market maker is a first market maker to post an inside ask that is lower than an immediately preceding inside ask for the symbol security,

wherein the results of the counting function as an indicator derived statistic is indicative of a temporary imbalance in market maker activity for at least one of the symbols securities.

78. (Currently Amended) The method according to claim 77, further comprising for each symbol security and market maker pair counting with the ~~configured~~ processor at least one of:

a number of times that a bid having an inside bid price is placed, or
a number of times that an ask having an inside ask price is placed.

79. (Currently Amended) The method according to claim 77, further comprising for each symbol security and market maker pair counting with the configured processor at least one of:

a number of times the market maker is a last market maker to leave an inside bid price for the symbol security other than by market movement to a higher inside bid price, or

a number of times the market maker is a last market maker to leave an inside ask price for the symbol security other than by market movement to a lower inside ask price.

80. (Currently Amended) The method according to claim 79, further comprising for each symbol security and market maker pair totaling with the configured processor at least one of:

the counted number of times the market maker is the first market maker to post an inside bid that is higher than an immediately preceding inside bid and the counted number of times the market maker is the last market maker to leave an inside bid price, or

the counted number of times the market maker is the first market maker to post an inside ask that is lower than an immediately preceding inside ask and the counted number of times the market maker is the last market maker to leave an inside ask price.

81. (Currently Amended) The method according to claim 77, further comprising displaying with a on a computer system display at least one of the counts in at least one of a table, or a chart, or a graphic for each corresponding symbol security and market maker pair.

82. (Currently Amended) The method according to claim 81, further comprising dynamically sorting with the configured processor the at least one of the table, or the chart, or the graphic based on a parameter selected by the user ~~to reflect current market activity~~.

83. (Current Amended) The method according to claim 77, further comprising filtering the data stream with the ~~configured~~ processor for each ~~symbol~~ security based on traded volume.

84. (Currently Amended) The method according to claim 77, further comprising filtering the data stream with the ~~configured~~ processor for each ~~symbol~~ security based on traded price.

85. (Withdrawn) A method of tracking activity of a plurality of market makers relating to securities traded on at least one common exchange where the market makers place bids and asks, comprising:

receiving a dynamically updated data stream containing level 1 and level 2 data relating to a plurality of securities traded over the at least one exchange, the level 1 data including at least the last trade price of each security and the level 2 data containing a bid price, a bid time, a bid volume, a security identifier, and a market maker identifier for each bid, and an ask price, an ask volume, an ask time, a security identifier and a market maker identifier for each ask; and

for each symbol and market maker pair from a set of symbols and a set of market makers, generating at least one of a bid persistence statistic by approximating a percentage of a predetermined number trades for which the market maker had an inside bid price, and an ask persistence statistic by approximating a percentage of a predetermined number of trades for which the market maker has an inside ask price.

86. (Withdrawn) The method according to claim 85, further comprising displaying at least one of the bid persistence statistic and the ask persistence statistic in at least one of a table or a chart for each corresponding symbol and market maker pair.

87. (Withdrawn) The method according to claim 86, further comprising dynamically sorting the at least one of the table or the chart based on a parameter selected by the user to reflect current market activity.

88. (Withdrawn) The method according to claim 85, further comprising filtering the data stream for each symbol based on traded volume.

89. (Withdrawn) The method according to claim 85, further comprising filtering the data stream for each symbol based on traded price.

90. (Withdrawn) The method according to claim 85, wherein the bid persistence statistic and the ask persistence statistic are respectively calculated by:
assigning a value of one to each order at the inside market, otherwise assigning a value of zero to the order; and
separately solving the equation:

$$\left(\Sigma VAL_p + \frac{CV - \Sigma VAL_p}{m} \right)$$

for bid orders and ask orders, wherein m is the predetermined number of trades, CV is the current value assigned to the order and ΣVAL_p is the prior sum of all values calculated according to the equation one trade earlier.

91. (Withdrawn) The method according to claim 90, further comprising multiplying the respective bid order and ask order results of the equation by one hundred to arrive at respective representations of exponential averages.

92. (Withdrawn) The method according to claim 85, wherein the bid persistence statistic and the ask persistence statistic are respectively calculated as one of a simple moving average, an exponential moving average, a weighted moving average, a linear regression, or mathematical averaging technique.

93. (Currently Amended) A tangible computer readable medium storing a program embodied in a tangible computer readable medium that is executed by a computing device to track activity of a plurality of market makers relating to securities

traded on at least one common exchange where the market makers place bids and asks, comprising:

code that receives a dynamically updated data stream containing level 1 and level 2 data relating to a plurality of securities traded over the at least one exchange, the level 1 data including at least the last trade price, inside bid and inside ask of each security and the level 2 data containing a bid price, a bid time, a bid volume, an exchange identifier, a security identifier, and a market maker identifier for each bid, and an ask price, an ask volume, an exchange identifier, an ask time, a security identifier and a market maker identifier for each ask; and

code that ~~calculates analyzes each data item within the data stream for each security in a set of symbols securities and transforms the data to derive a statistic indicative of activity of an inside market for each of the symbols and update the statistic to correspond to content of the updated data stream, the statistic comprising~~ a total number of market makers at the inside market, and a difference between a number of market makers at an inside bid price and a number of market makers at an inside ask price,

wherein the ~~calculated difference functions as an indicator derived statistic is indicative of a temporary imbalance in market maker activity for at least one of the symbols.~~

94. (Currently Amended) The computer readable medium program according to claim 93, further comprising code that displays on a computer system display the indicator of a temporary imbalance in market maker activity statistic indicative of activity of the inside market in at least one of a table, or a chart, or a graphic for each corresponding symbol security.

95. (Currently Amended) The computer readable medium program according to claim 94, further comprising code that dynamically sorts the at least one of the table, or the chart, or the graphic based on a parameter selected by the user to reflect current market activity.

96. (Currently Amended) The computer readable medium program according to claim 93, further comprising code that for each security filters the data stream by discarding bids having a price lower than the last trade value minus one of a selected threshold percentage of the last trade value or a fixed price away, and discarding asks having a price higher than the last trade value plus one of a selected threshold percentage of the last trade value or a fixed price away.

97. (Currently Amended) The computer readable medium program according to claim 96, wherein the filtering code for each security filters for a plurality of selected threshold percentages or fixed prices away, and for each selected threshold percentage or fixed price away a corresponding data set is derived, the statistic indicator being calculated and updated for each symbol security for each data set.

98. (Currently Amended) The computer readable medium program according to claim 93, further comprising code that filters the data stream for each symbol security based on traded volume.

99. (Currently Amended) The computer readable medium program according to claim 93, further comprising code that filters the data stream for each symbol security based on traded price.

100. (Currently Amended) A tangible computer readable medium storing a program ~~embodied in a tangible computer readable medium~~ that is executed by a computing device to track activity of a plurality of market makers relating to securities traded on at least one common exchange where the market makers place bids and asks, comprising:

code that receives a dynamically updated data stream containing level 1 and level 2 data relating to a plurality of securities traded over the at least one exchange, the level 1 data including at least the last trade price, inside bid and inside ask of each security and the level 2 data containing a bid price, a bid time, a bid volume, an exchange identifier, a security identifier, and a market maker identifier for each bid, and

an ask price, an ask volume, an exchange identifier, an ask time, a security identifier and a market maker identifier for each ask; and

code that calculates for each security in a set of securities analyzes each data item within the data stream for a set of symbols and transforms the data to derive a statistic indicative of volume activity of an inside market for each of the symbols and that updates statistic to correspond to content of the updated data stream, the statistic comprising a total volume of shares at the inside market, and at least one of a difference between a number of shares at an inside bid price and a number of shares at an inside ask price, or a percent of inside market shares at the inside bid price as compared to a percent of inside market shares at the inside ask price,

wherein the at least one calculated difference or calculated percent functions as an indicator derived statistic is indicative of a temporary imbalance in market maker activity for at least one of the symbols securities.

101. (Currently Amended) The computer readable medium program according to claim 100, further comprising code that displays on a computer system display at least one of the statistics indicative indicators of volume activity of the inside market in at least one of a table, or a chart, or a graphic for each corresponding symbol security.

102. (Currently Amended) The computer readable medium program according to claim 101, further comprising code that dynamically sorts the at least one of the table, or the chart, or the graphic based on a parameter selected by the user to reflect current market activity.

103. (Currently Amended) The computer readable medium program according to claim 100, further comprising code that for each security filters the data stream by discarding bids having a price lower than the last trade value minus one of a selected threshold percentage of the last trade value or a fixed price away, and discarding asks having a price higher than the last trade value plus one of a selected threshold percentage of the last trade value or a fixed price away.

104. (Currently Amended) The computer readable medium program according to claim 103, wherein the filtering code for each security filters for a plurality of selected threshold percentages or fixed prices away, and for each selected threshold percentage or fixed price away a corresponding data set is derived, the statistic indicator being calculated and updated for each symbol for each data set.

105. (Currently Amended) The computer readable medium program according to claim 100, further comprising code that filters the data stream for each symbol security based on traded volume.

106. (Currently Amended) The computer readable medium program according to claim 100, further comprising code that filters the data stream for each symbol security based on traded price.

107. (Withdrawn) A program embodied in computer readable medium to track a plurality of symbols relating to securities traded on at least one common exchange, comprising:

code that receives a dynamically updated data stream containing level 1 data relating to the plurality of symbols traded over the at least one exchange, the level 1 data including at least the last trade price of each symbol; and

code that analyzes the data stream for a set of symbols to derive for each symbol at least one of:

an upward price movement indicator by dividing a count of the number of times the symbol achieves a new intra-session high by an intra-session trading price range, and

a downward price movement indicator by dividing a count of the number of times the symbol achieves a new intra-session low by the intra-session price range.

108. (Withdrawn) The program according to claim 107, further comprising code that updates at least one of the upward price movement indicator and the

downward price movement indicator to correspond to content of the updated data stream.

109. (Withdrawn) The program according to claim 107, further comprising code that displays at least one of the upward price movement indicator and the downward price movement indicator in at least one of a table or a chart for each corresponding symbol.

110. (Withdrawn) The program according to claim 109, further comprising code that dynamically sorts the at least one of the table or the chart based on a parameter selected by the user to reflect current market activity.

111. (Withdrawn) The program according to claim 107, further comprising code that filters the data stream for each symbol based on traded volume.

112. (Withdrawn) The program according to claim 107, further comprising code that filters the data stream for each symbol based on traded price.

113. (Withdrawn) The program according to claim 107, where the analyzing code is programmed to wait a specified period of time after the beginning of the session to commence the analyzing.

114. (Withdrawn) A program embodied in computer readable medium to track a plurality of symbols relating to securities traded on at least one common exchange, comprising:

code that receives a dynamically updated data stream containing level 1 data relating to the plurality of symbols traded over the at least one exchange, the level 1 data including at least the last trade price of each symbol; and

code that analyzes the data stream for a set of symbols to derive for each symbol at least one of:

a high opening balance range extension by subtracting a high trade price established during an opening balance delay interval from a current high trade price, and

a low opening balance range extension by subtracting a current low trade price from a low trade price established during the opening balance delay interval.

115. (Withdrawn) The program according to claim 114, further comprising code that updates at least one of the high opening balance range extension and the low opening balance range extension to correspond to content of the updated data stream.

116. (Withdrawn) The program according to claim 114, further comprising code that displays at least one of the high opening balance range extension and the low opening balance range extension in at least one of a table or a chart for each corresponding symbol.

117. (Withdrawn) The program according to claim 116, further comprising code that dynamically sorts the at least one of the table or the chart based on a parameter selected by the user to reflect current market activity.

118. (Withdrawn) The program according to claim 114, further comprising code that filters the data stream for each symbol based on traded volume.

119. (Withdrawn) The program according to claim 114, further comprising code that filters the data stream for each symbol based on traded price.

120. (Withdrawn) The program according to claim 114, where the analyzing code is programmed to wait a specified period of time after the beginning of the session to commence the analyzing.

121. (Withdrawn) The program according to claim 114, further comprising code that derives for each symbol at least one of:

a high opening balance range extension percentage by dividing the corresponding high opening balance range extension value by a current trading session price range, and

a low opening balance range extension percentage by dividing the corresponding low opening balance range extension value by the current trading session price range.

122. (Withdrawn) The program according to claim 121, further comprising code that updates at least one of the high opening balance range extension percentage and the low opening balance range extension percentage to correspond to content of the updated data stream.

123. (Withdrawn) The program according to claim 121, further comprising code that displays at least one of the high opening balance range extension percentage and the low opening balance range extension percentage in at least one of a table or a chart for each corresponding symbol.

124. (Withdrawn) The program according to claim 123, further comprising code that dynamically sorts the at least one of the table or the chart based on a parameter selected by the user to reflect current market activity.

125. (Withdrawn) The program according to claim 121, further comprising code that filters the data stream for each symbol based on traded volume.

126. (Withdrawn) The program according to claim 121, further comprising code that filters the data stream for each symbol based on traded price.

127. (Withdrawn) The program according to claim 121, where the analyzing code is programmed to wait a specified period of time after the beginning of the session to commence the analyzing.

128. (Withdrawn) A program embodied in computer readable medium to track a plurality of symbols relating to securities traded on at least one common exchange, comprising:

code that receives a dynamically updated data stream containing level 1 data relating to the plurality of symbols traded over the at least one exchange, the level 1 data including at least the last trade price of each symbol; and

code that tracks on a symbol by symbol basis for a set of symbols a statistic selected from at least one of:

a difference between a number of trades for a first time period and a number of trades for a second time period,

a difference between a total volume of shares traded for the first time period and a total volume of shares traded for the second time period,

an average volume of shares per trade for the first time period;

an average volume of shares per trade for the second time period;
and

a difference between the average volume of shares per trade for the first time period and the average volume of shares per trade for the second time period.

129. (Withdrawn) The program according to claim 128, further comprising code that displays at least one of the tracked statistics in a at least one of the table or the chart for each corresponding symbol.

130. (Withdrawn) The program according to claim 128, further comprising code that for at least one of the tracked statistics calculates an average of the tracked statistic per unit of time over the respective time periods.

131. (Withdrawn) The program according to claim 128, wherein the first and the second time periods are from the current trading session.

132. (Withdrawn) The program according to claim 128, wherein the first time period is from the current trading session and the second time period is selected from one of a previous trading session and an average of multiple trading sessions.

133. (Withdrawn) The program according to claim 128, further comprising code that updates the tracked statistics based on contents of the data stream at regular intervals.

134. (Withdrawn) The program according to claim 133, wherein each interval corresponds to a unit of time and, after each interval elapses, the tracked statistics are updated based on data from the most recent intervals that in total corresponds respectively to a length of the first time period and a length of the second time period.

135. (Withdrawn) The program according to claim 128, wherein the tracked statistics are updated as a moving average.

136. (Withdrawn) The program according to claim 128, further comprising code that displays for each corresponding symbol in at least one of a table or a chart at least one of:

a difference between an average of the number of trades per unit time for the first time period and an average of the number of trades per unit time for the second time period, and

a difference between an average of the volume traded per unit time for the first time period and an average of the volume traded per unit time for the second time period.

137. (Currently Amended) A tangible computer readable medium storing a program embodied in a tangible computer readable medium that is executed by a computing device to track a plurality of symbols securities and activity of a plurality of market makers relating to securities traded on at least one common exchange where the market makers place bids and asks, comprising:

code that receives a dynamically updated data stream containing level 2 data relating to a plurality of securities traded over the at least one exchange, the level 2 data containing a bid price, a bid time, a bid volume, an exchange identifier, a security identifier, and a market maker identifier for each bid, and an ask price, an ask volume, an exchange identifier, an ask time, a security identifier and a market maker identifier for each ask; and

code that tracks each data item within the data stream on a symbol by symbol security by security basis for a set of symbols securities and transforms the data to derive at least one statistic selected from ; and

code that calculates for each security at least one of a number of bids at a first time period as compared to a number of bids at a second time period, a number of asks at the first time period as compared to the number of asks at the second time period, a bid volume of shares at the first time period as compared to a bid volume of shares at the second time period, an ask volume of shares at the first time period as compared to an ask volume of shares at the second time period, a volume of shares per bid at the first time period as compared to a volume of shares per bid at the second time period, or a volume of shares per ask at the first time period as compared to a volume of shares per ask at the second time period,

wherein a relationship of the tracked statistic at least one calculation for the first and second time periods functions as an indicator is indicative of a temporary imbalance in market maker activity for at least one of the symbols.

138. (Currently Amended) The computer readable medium program according to claim 137, further comprising code that displays on a computer system display at least one of the tracked statistics the indicator of a temporary imbalance in market

maker activity in at least one of a table, or a chart, or a graphic for each corresponding symbol security.

139. (Currently Amended) The computer readable medium program according to claim 137, further comprising code that for at least one of the tracked statistics calculations, further calculates an average of the tracked statistic calculation per unit of time over the respective time periods.

140. (Currently Amended) The computer readable medium program according to claim 137, wherein the first and the second time periods are from the current trading session.

141. (Currently Amended) The computer readable medium program according to claim 137, wherein the first time period is from the current trading session and the second time period is selected from one of a previous trading session and an average of multiple trading sessions.

142. (Currently Amended) The computer readable medium program according to claim 137, further comprising code that updates the tracked statistics based on contents of the data stream at regular intervals.

143. (Currently Amended) The computer readable medium program according to claim 142, wherein each interval corresponds to a unit of time and, after each interval elapses, the tracked statistics are the at least one calculation is updated based on data from the most recent intervals that in total corresponds respectively to a length of the first time period and a length of the second time period.

144. (Currently Amended) The computer readable medium program according to claim 137, wherein the tracked statistics are at least one calculation is updated as a moving average.

145. (Currently Amended) The computer readable medium program according to claim 137, further comprising code that displays on a computer system display for each corresponding symbol security in at least one of a table, or a chart, or a graphic at least one of a difference between the number of bids for the first time period and the number of bids for the second time period, or a difference between the number of asks for the first time period and the number of asks for the second time period.

146. (Currently Amended) The computer readable medium program according to claim 137, further comprising code that displays on a computer system display for each corresponding symbol security in at least one of a table, or a chart, or a graphic at least one of a difference between the bid volume for the first time period and the bid volume for the second period, or a difference between the ask volume for the first time period and the ask volume for the second time period.

147. (Currently Amended) The computer readable medium program according to claim 137, further comprising code that displays on a computer system display for each corresponding symbol security in at least one of a table, or a chart, or a graphic at least one of a difference between the volume per bid for the first time period and the volume per bid for the second time period, or a difference between the volume per ask for the first time period and the volume per ask for the second time period.

148. (Currently Amended) The computer readable medium program according to claim 137, further comprising code that displays on a computer system display for each corresponding symbol security in at least one of a table, or a chart, or a graphic at least one of a difference between an average number of bids per unit of time for the first time period and an average number of bids per unit of time for the second time period, or a difference between an average number of asks per unit time for the first time period and an average number of asks per unit of time for the second time period.

149. (Currently Amended) The computer readable medium program according to claim 137, further comprising code that displays on a computer system display for

each corresponding ~~symbol security~~ in at least one of a table, or a chart, or a graphic at least one of a difference between an average of the bid volume per unit of time for the first time period and an average of the bid volume per unit of time for the second time period, or a difference between an average of the ask volume per unit of time for the first time period and an average of the ask volume per unit of time for the second time period.

150. (Currently Amended) A tangible computer readable medium storing a program embodied in a tangible computer readable medium that is executed by a computing device to track a plurality of ~~symbols securities~~ and activity of a plurality of market makers relating to securities traded on at least one common exchange where the market makers place bids and asks, comprising:

code that receives a dynamically updated data stream containing level 2 data relating to a plurality of securities traded over the at least one exchange, the level 2 data containing a bid price, a bid time, a bid volume, an exchange identifier, a security identifier, and a market maker identifier for each bid, and an ask price, an ask volume, an exchange identifier, an ask time, a security identifier and a market maker identifier for each ask; and

code that tracks each data item within the data stream for a selected market maker on a ~~symbol by symbol security by security~~ basis for a set of securities symbols and transforms the data to derive at least one statistic selected from ; and

code that calculates for each security at least one of a number of bids at a first time period as compared to a number of bids at a second time period, a number of asks at the first time period as compared to the number of asks at the second time period, a bid volume of shares at the first time period as compared to a bid volume of shares at the second time period, an ask volume of shares at the first time period as compared to an ask volume of shares at the second time period, a volume of shares per bid at the first time period as compared to a volume of shares per bid at the second time period, or a volume of shares per ask at the first time period as compared to a volume of shares per ask at the second time period,

wherein a relationship of the ~~tracked statistic at least one calculation~~ for the first and second time periods ~~functions as an indicator is indicative~~ of a temporary imbalance in market maker activity for at least one of the ~~symbols securities~~.

151. (Currently Amended) The computer readable medium program according to claim 150, further comprising code that displays on a computer system display at least one of the tracked statistics the indicator of a temporary imbalance in market maker activity in at least one of a table, or a chart, or a graphic for each corresponding symbol security.

152. (Currently Amended) The computer readable medium program according to claim 150, further comprising code that further calculates for at least one of the ~~tracked statistics calculations~~ an average of the ~~tracked statistic calculation~~ per unit of time over the respective time periods.

153. (Currently Amended) The computer readable medium program according to claim 150, wherein the first and the second time periods are from the current trading session.

154. (Currently Amended) The computer readable medium program according to claim 150, wherein the first time period is from the current trading session and the second time period is selected from one of a previous trading session and an average of multiple trading sessions.

155. (Currently Amended) The computer readable medium program according to claim 150, further comprising code that updates the ~~tracked statistics at least one calculation~~ based on contents of the data stream at regular intervals.

156. (Currently Amended) The computer readable medium program according to claim 155, wherein each interval corresponds to a unit of time and, after each interval elapses, the ~~tracked statistics are at least one calculation is updated based on data~~

from the most recent intervals that in total corresponds respectively to a length of the first time period and a length of the second time period.

157. (Currently Amended) The computer readable medium program according to claim 150, wherein the ~~tracked statistics are at least one calculation~~ is updated as a moving average.

158. (Currently Amended) The computer readable medium program according to claim 150, further comprising code that displays on a computer system display for each corresponding ~~symbol security~~ in at least one of a table, or a chart, or a graphic at least one of a difference between the number of bids for the first time period and the number of bids for the second time period, or a difference between the number of asks for the first time period and the number of asks for the second time period.

159. (Currently Amended) The computer readable medium program according to claim 150, further comprising code that displays on a computer system display for each corresponding ~~symbol security~~ in at least one of a table, or a chart, or a graphic at least one of a difference between the bid volume for the first time period and the bid volume for the second period, or a difference between the ask volume for the first time period and the ask volume for the second time period.

160. (Currently Amended) The computer readable medium program according to claim 150, further comprising code that displays on a computer system display for each corresponding ~~symbol security~~ in at least one of a table, or a chart, or a graphic at least one of a difference between the volume per bid for the first time period and the volume per bid for the second time period, or a difference between the volume per ask for the first time period and the volume per ask for the second time period.

161. (Currently Amended) The computer readable medium program according to claim 150, further comprising code that displays on a computer system display for each corresponding ~~symbol security~~ in at least one of a table, or a chart, or a graphic at

least one of a difference between an average number of bids per unit of time for the first time period and an average number of bids per unit of time for the second time period, or a difference between an average number of asks per unit time for the first time period and an average number of asks per unit of time for the second time period.

162. (Currently Amended) The computer readable medium program according to claim 150, further comprising code that displays on a computer system display for each corresponding symbol in a table, a chart, or a graphic at least one of a difference between an average of the bid volume per unit of time for the first time period and an average of the bid volume per unit of time for the second time period, or a difference between an average of the ask volume per unit of time for the first time period and an average of the ask volume per unit of time for the second time period.

163. (Currently Amended) The computer readable medium program according to claim 150, further comprising:

code that ~~tracks calculates~~ for a second market maker and on a ~~symbol-by-symbol security by security basis~~ ~~the~~ at least one of statistic selected from a number of bids at a first time period as compared to a number of bids at a second time period, a number of asks at the first time period as compared to the number of asks at the second time period, a bid volume of shares at the first time period as compared to a bid volume of shares at the second time period, an ask volume of shares at the first time period as compared to an ask volume of shares at the second time period, a volume of shares per bid at the first time period as compared to a volume of shares per bid at the second time period, or a volume of shares per ask at the first time period as compared to a volume of shares per ask at the second time period;

and

code that compares the at least one statistic calculation for the selected market maker and the at least one statistic calculation for the second market maker.

164. (Currently Amended) A tangible computer readable medium storing a program embodied in a tangible computer readable medium that is executed by a

computing device to track activity of a plurality of market makers relating to securities traded on at least one common exchange where the market makers place bids and asks, comprising:

code that receives a dynamically updated data stream containing level 1 and level 2 data relating to a plurality of securities traded over the at least one exchange, the level 1 data including at least the last trade price, inside bid and inside ask of each security and the level 2 data containing a bid price, a bid time, a bid volume, an exchange identifier, a security identifier, and a market maker identifier for each bid, and an ask price, an ask volume, an exchange identifier, an ask time, a security identifier and a market maker identifier for each ask; and

code that, for each symbol security and market maker pair from a set of symbols securities and a set of market makers, ~~analyzes each data item within the data stream and transforms the data to derive a statistic comprising counting counts~~ at least one of a number of times that a bid having an inside bid price is placed, or a number of times that an ask having an inside ask price is placed,

wherein the results of the counting function as an indicator derived statistic is indicative of a temporary imbalance in market maker activity for at least one of the symbols securities.

165. (Currently Amended) The computer readable medium program according to claim 164, further comprising code that displays on a computer system display at least one of the count of bids having the inside bid price or the count of the inside ask price in at least one of a table, or a chart, or a graphic for each corresponding symbol securities.

166. (Currently Amended) The computer readable medium program according to claim 165, further comprising code that dynamically sorts the at least one of the table, or the chart, or the graphic based on a parameter selected by the user to reflect current market activity.

167. (Currently Amended) The computer readable medium program according to claim 164, further comprising code that filters the data stream for each symbol security based on traded volume.

168. (Currently Amended) The computer readable medium program according to claim 164, further comprising code that filters the data stream for each symbol security based on traded price.

169. (Currently Amended) A tangible computer readable medium storing a program ~~embodied in a tangible computer readable medium~~ that is executed by a computing device to track activity of a plurality of market makers relating to securities traded on at least one common exchange where the market makers place bids and asks, comprising:

code that receives a dynamically updated data stream containing level 1 and level 2 data relating to a plurality of securities traded over the at least one exchange, the level 1 data including at least the last trade price, inside bid and inside ask of each security and the level 2 data containing a bid price, a bid time, a bid volume, an exchange identifier, a security identifier, and a market maker identifier for each bid, and an ask price, an ask volume, an exchange identifier, an ask time, a security identifier and a market maker identifier for each ask; and

code that, for each symbol security and market maker pair from a set of symbols securities and a set of market makers, ~~analyzing each data item within the data stream and transforms the data to derive a statistic comprising counting counts~~ at least one of:

a number of times the market maker is a first market maker to post an inside bid that is higher than an immediately preceding inside bid for the symbol security, or

a number of times the market maker is a first market maker to post an inside ask that is lower than an immediately preceding inside ask for the symbol security,

wherein the results of the counting function as an indicator derived statistic is indicative of a temporary imbalance in market maker activity for at least one of the symbols securities.

170. (Currently Amended) The computer readable medium program according to claim 169, further comprising code that, for each symbol security and market maker pair, counts at least one of:

a number of times that a bid having an inside bid price is placed, or
a number of times that an ask having an inside ask price is placed.

171. (Currently Amended) The computer readable medium program according to claim 169, further comprising code that, for each symbol security and market maker pair, counts at least one of:

a number of times the market maker is a last market maker to leave an inside bid price for the symbol security other than by market movement to a higher inside bid price, or

a number of times the market maker is a last market maker to leave an inside ask price for the symbol security other than by market movement to a lower inside ask price.

172. (Currently Amended) The computer readable medium program according to claim 171, further comprising code that, for each symbol security and market maker pair, totals at least one of:

the counted number of times the market maker is the first market maker to post an inside bid that is higher than an immediately preceding inside bid and the counted number of times the market maker is the last market maker to leave an inside bid price, or

the counted number of times the market maker is the first market maker to post an inside ask that is lower than an immediately preceding inside ask and the counted number of times the market maker is the last market maker to leave an inside ask price.

173. (Currently Amended) The computer readable medium program according to claim 169, further comprising code that displays on a computer system display at least one of the counts in at least one of a table, or a chart, or a graphic for each corresponding symbol security and market maker pair.

174. (Currently Amended) The computer readable medium program according to claim 173, further comprising code that dynamically sorts the at least one of the table, or the chart, or graphic based on a parameter selected by the user ~~to reflect current market activity~~.

175. (Currently Amended) The computer readable medium program according to claim 169, further comprising code that filters the data stream for each symbol security based on traded volume.

176. (Currently Amended) The computer readable medium program according to claim 169, further comprising code that filters the data stream for each symbol security based on traded price.

177. (Withdrawn) A program embodied in computer readable medium to track activity of a plurality of market makers relating to securities traded on at least one common exchange where the market makers place bids and asks, comprising:

code that receives a dynamically updated data stream containing level 1 and level 2 data relating to a plurality of securities traded over the at least one exchange, the level 1 data including at least the last trade price of each security and the level 2 data containing a bid price, a bid time, a bid volume, a security identifier, and a market maker identifier for each bid, and an ask price, an ask volume, an ask time, a security identifier and a market maker identifier for each ask; and

code that, for each symbol and market maker pair from a set of symbols and a set of market makers, generates at least one of a bid persistence statistic by approximating a percentage of a predetermined number trades for which the market

maker had an inside bid price, and an ask persistence statistic by approximating a percentage of a predetermined number of trades for which the market maker has an inside ask price.

178. (Withdrawn) The program according to claim 177, further comprising code that displays at least one of the bid persistence statistic and the ask persistence statistic in at least one of a table or a chart for each corresponding symbol and market maker pair.

179. (Withdrawn) The program according to claim 178, further comprising code that dynamically sorts the at least one of the table or the chart based on a parameter selected by the user to reflect current market activity.

180. (Withdrawn) The program according to claim 177, further comprising code that filters the data stream for each symbol based on traded volume.

181. (Withdrawn) The program according to claim 177, further comprising code that filters the data stream for each symbol based on traded price.

182. (Withdrawn) The program according to claim 177, wherein the code that calculates the bid persistence statistic and the ask persistence statistic includes code that:

assigns a value of one to each order at the inside market, otherwise assigning a value of zero to the order; and

separately solves the equation:

$$\left(\Sigma VALp + \frac{CV - \Sigma VALp}{m} \right)$$

for bid orders and ask orders, wherein m is the predetermined number of trades, CV is the current value assigned to the order and ΣVAL_p is the prior sum of all values calculated according to the equation one trade earlier.

183. (Withdrawn) The program according to claim 182, wherein the code that calculates the bid persistence statistic and the ask persistence statistic includes code that multiplies the respective bid order and ask order results of the equation by one hundred to arrive at respective representations of exponential averages.

184. (Withdrawn) The program according to claim 177, wherein the bid persistence statistic and the ask persistence statistic are respectively calculated as one of a simple moving average, an exponential moving average, a weighted moving average, a linear regression, or mathematical averaging technique.